

WHAT IS CLAIMED IS:

1. A structure for manufacturing an optical module, comprising:
  - a bottom surface on which a optical device is mounted; and
  - outer walls formed at both sides of the bottom surface and making a
- 5 U-shape together with the bottom surface, and on which holes are formed respectively so that optical components can be attached in both directions of the optical device,
  - wherein light is exchanged between the optical device and the optical components through the holes.

10

2. The structure according to claim 1, wherein the outer walls have a different size.
3. The structure according to claim 1, wherein the optical device is a
- 15 tunable laser diode or a tunable filter.
4. The structure according to claim 3, wherein the outer walls have a different size.
- 20 5. The structure according to claim 1, wherein the optical component is a lens or a mirror.

6. The structure according to claim 5, wherein the outer walls have a different size.

7. The structure according to claim 1, wherein the structure is  
5 manufactured with a metal, a ceramic, or a polymer.

8. The structure according to claim 7, wherein the outer walls have a different size.

10 9. The structure according to claim 1, wherein the hole further comprises a ring.

10. The structure according to claim 9, wherein the outer walls have a different size.

15

11. The structure according to claim 9, wherein a space is formed between the ring and the holes to make alignment.

12. The structure according to claim 11, wherein the outer walls have  
20 a different size.

13. The structure according to claim 1, wherein at least one of the outer walls of the bottom surface has a protrusive shape.

14. The structure according to claim 13, wherein the outer walls have a different size.

5 15. The structure according to claim 1, wherein the holes formed on the outer wall have a different size.

16. The structure according to claim 15, wherein the outer walls have a different size.

10